

# JVC

# SCHEMATIC DIAGRAMS

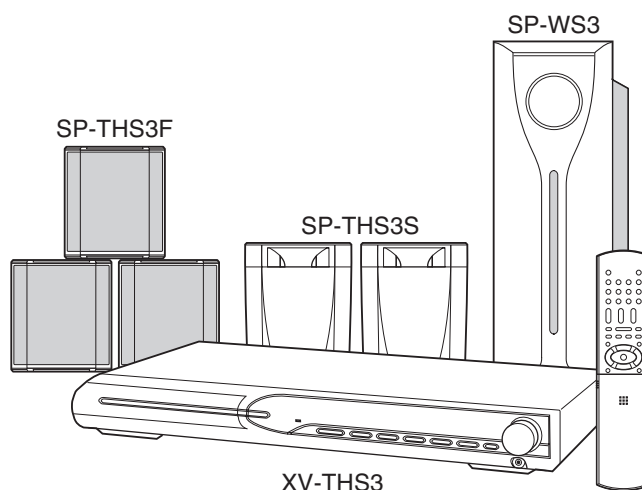
## DVD DIGITAL THEATER SYSTEM

### TH-S3

CD-ROM No.SML200405

#### Area suffix

J ----- U.S.A.  
C ----- Canada



**AV COMPU LINK**



**Digital Direct Progressive Scan**

#### Contents

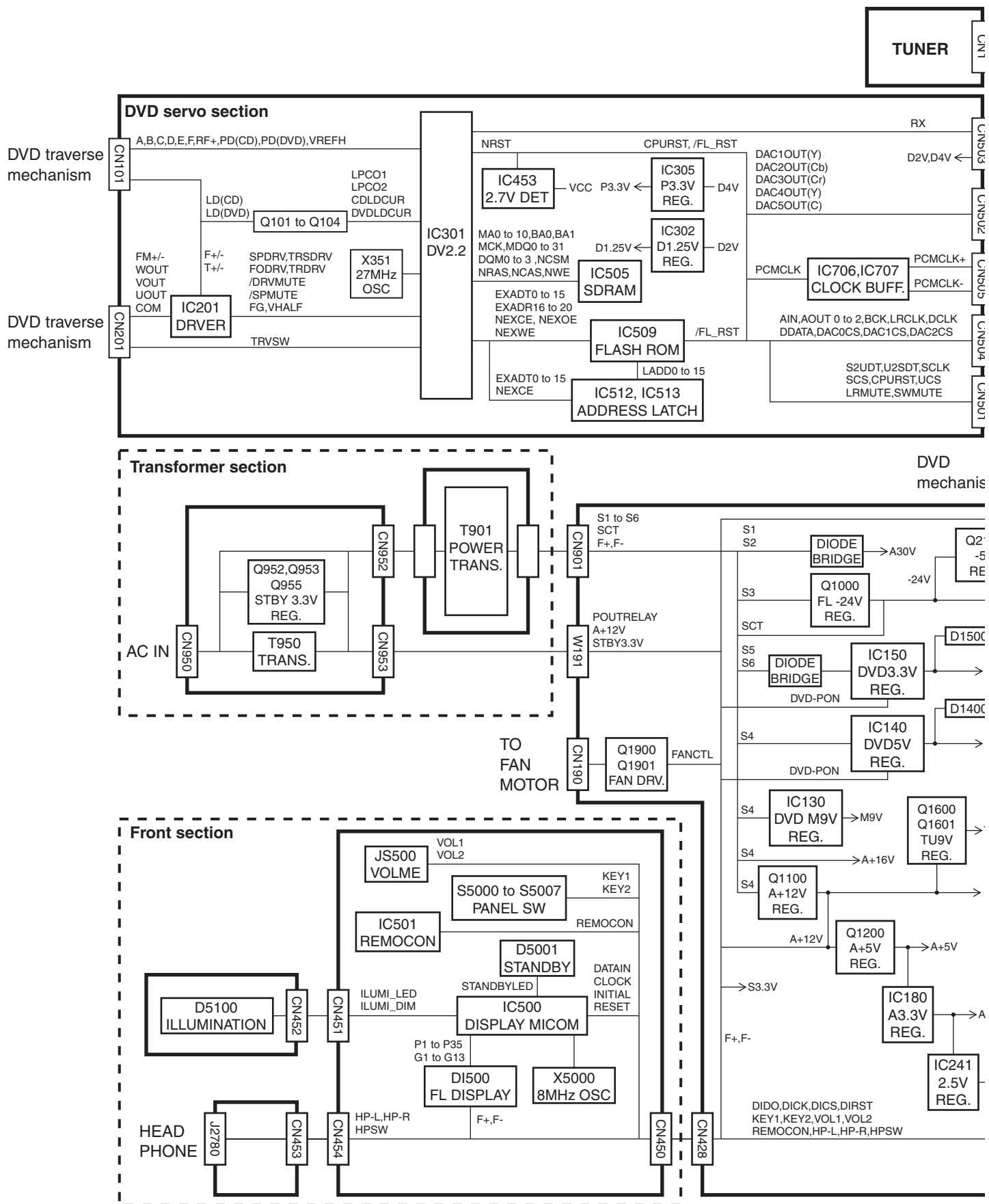
Block diagram .....	2-1
Standard schematic diagrams .....	2-3
Printed circuit boards .....	2-19 to 25

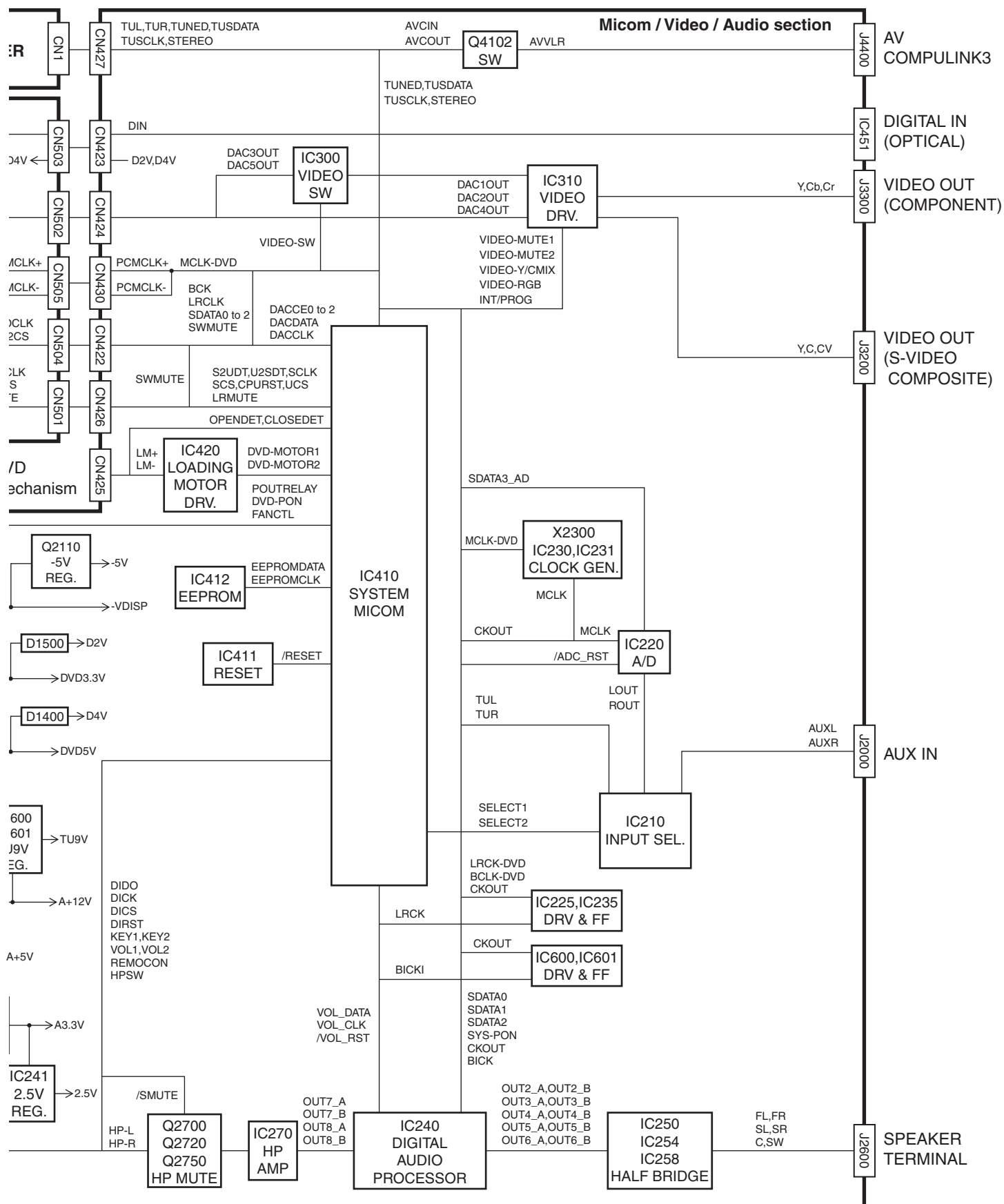
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (▬) and ICP (●) or identified by the "A" mark nearby are critical for safety.

(This regulation does not correspond to J and C version.)

< MEMO >

## Block diagram



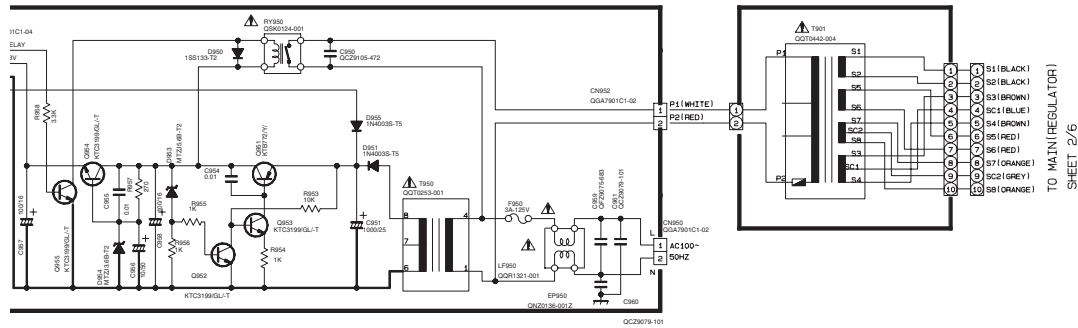
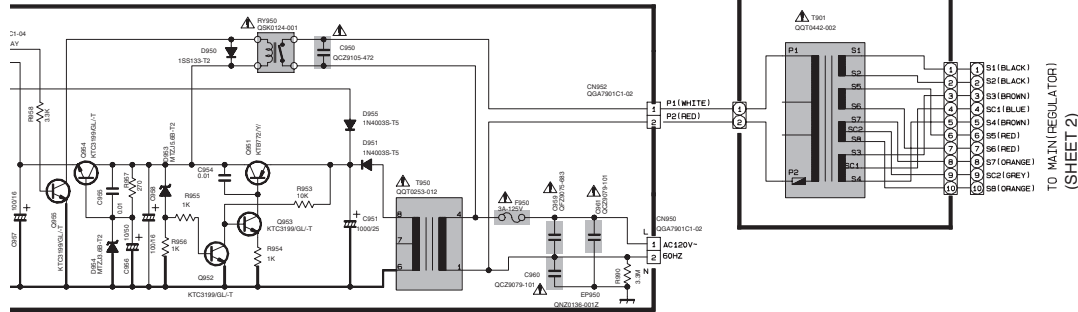


## Transformer section

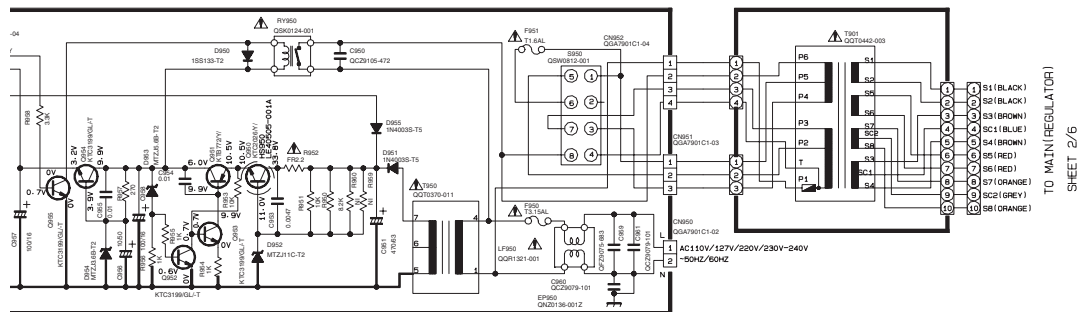


OCK

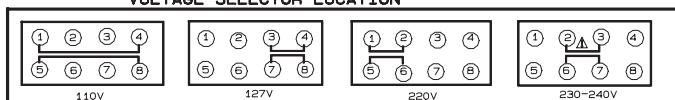
GVA10075-A1



JJ/UN/US/UT/UW/UX



#### VOLTAGE SELECTOR LOCATION

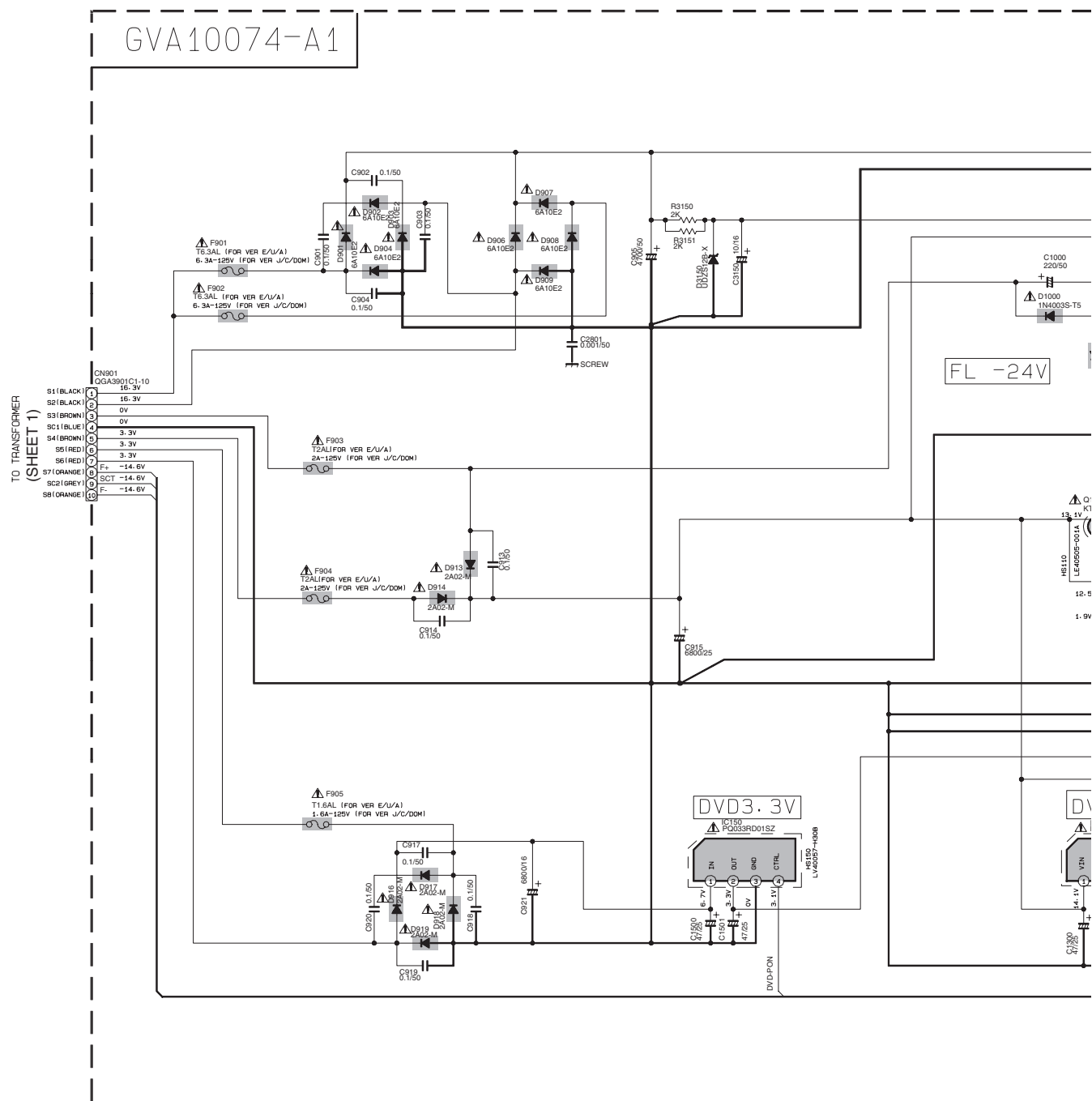


Parts are safety assurance parts.  
When replacing those parts make  
sure to use the specified one.

TRANSFORMER

SHEET 1

## Regulator section



### NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- CD STOP MODE Vol.0
- UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/8W ±5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN pF (p=F). ALL INDUCTANCE VALUES ARE IN mH (m=H). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V). ALL DIODES ARE MA111-X
- MARK(\* AND #) IS TO SHOW DEVIATION IN VERSIONS ARE EXPLAINED NEAR MARK.

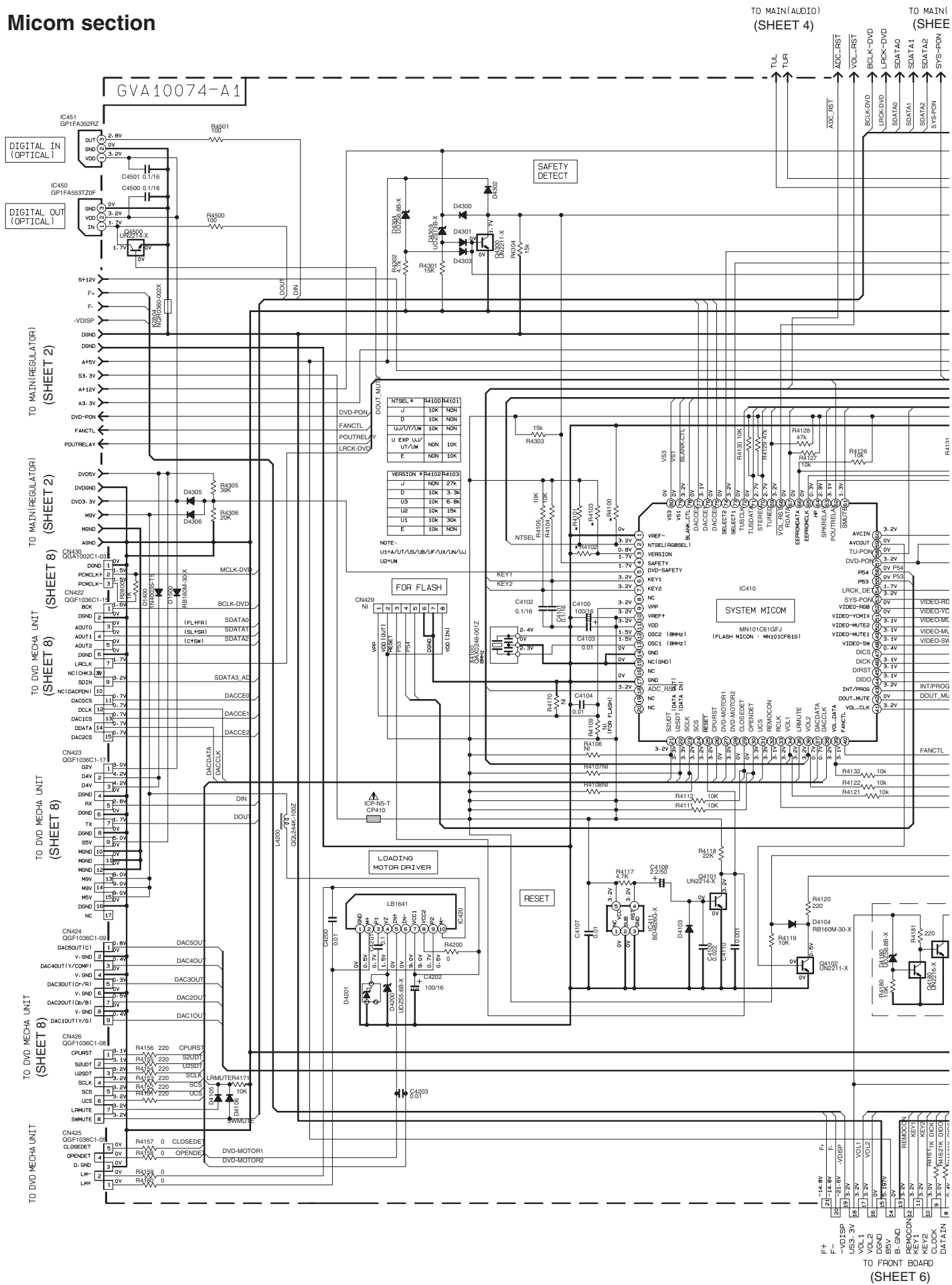
### UN221L-X





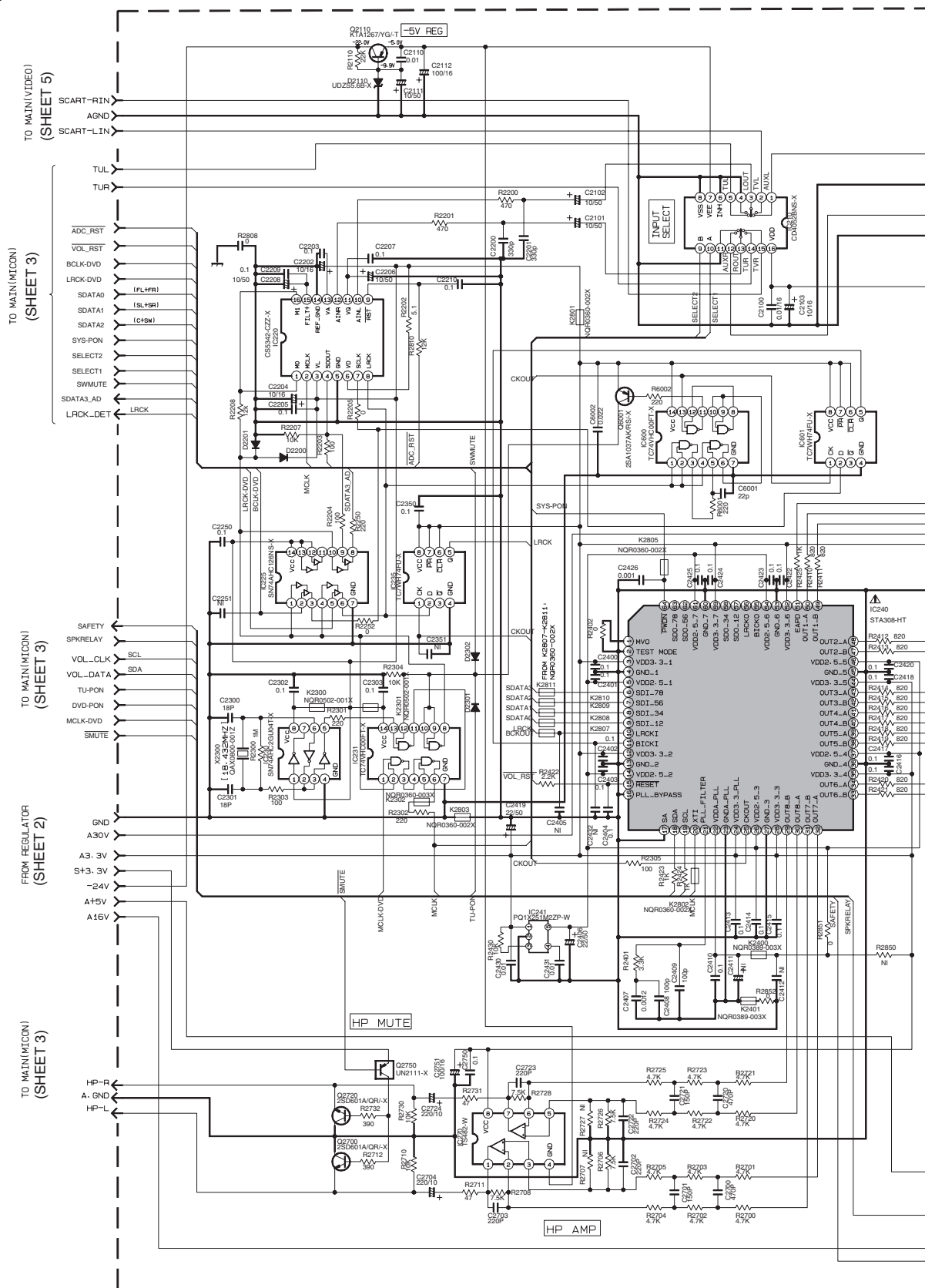


## ■ Micom section



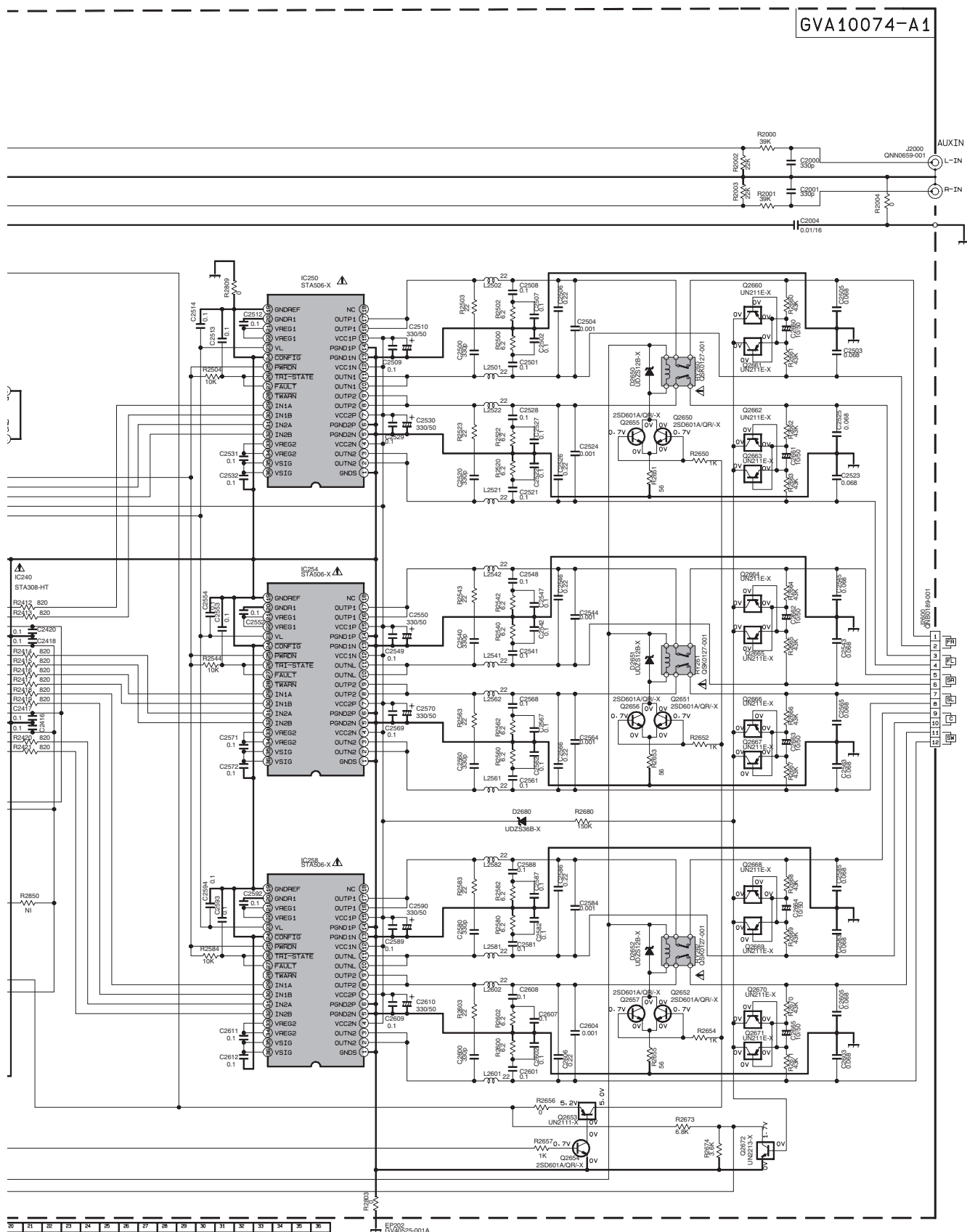


## ■ Audio section



- NOTES
- 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION -- CD STOP MODE Vol:0
  - 2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/8W ±5% CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN OHM(Ω).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN nF(10<sup>-9</sup>F).  
ALL INDUCTANCE VALUES ARE IN mH(10<sup>-3</sup>H).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).  
ALL DIODES ARE MA111-K
  - 3. MARK(\*) AND #) IS TO SHOW DEVIATION IN VERSIONS ARE EXPLAINED NEAR MARK

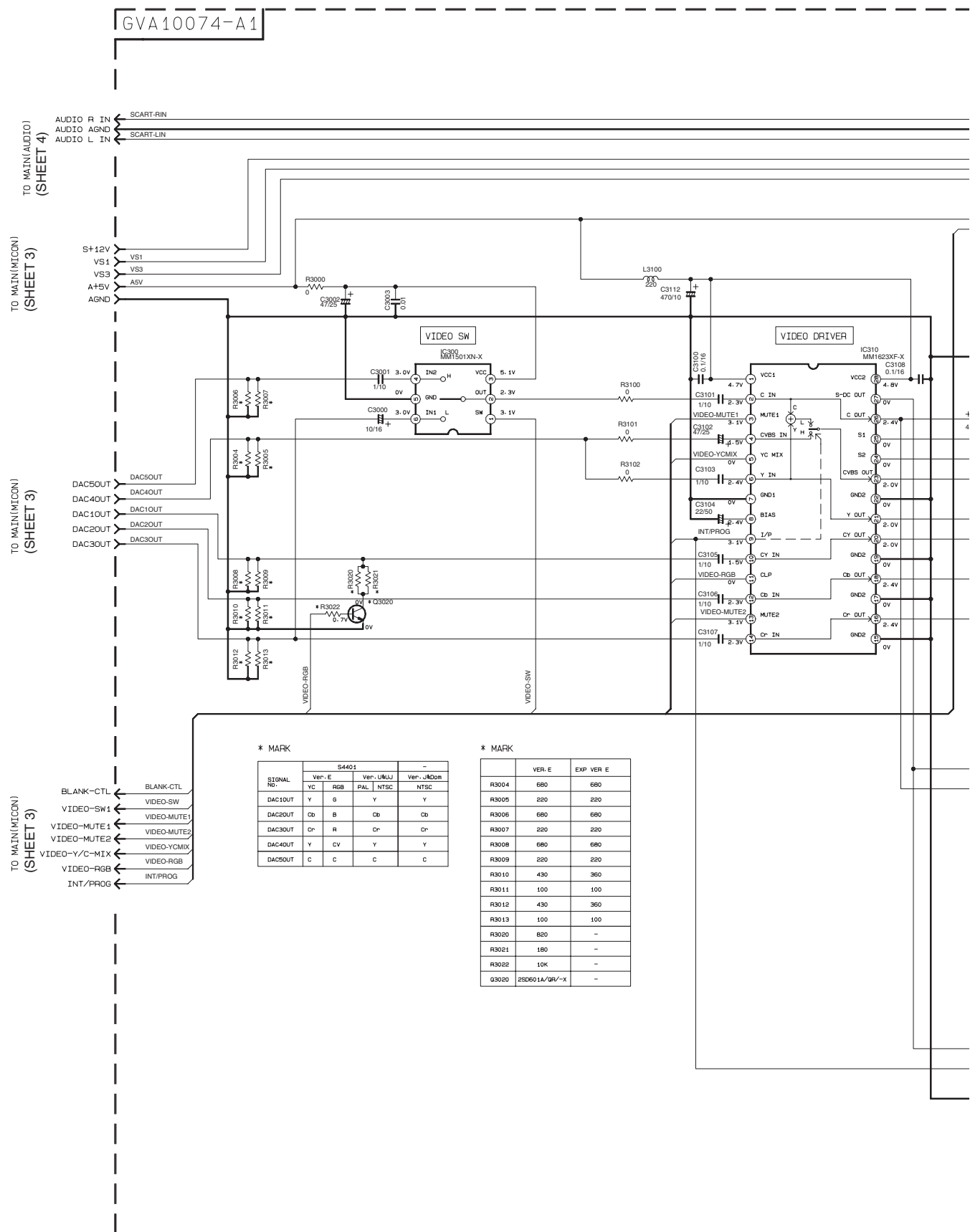
[illegible]

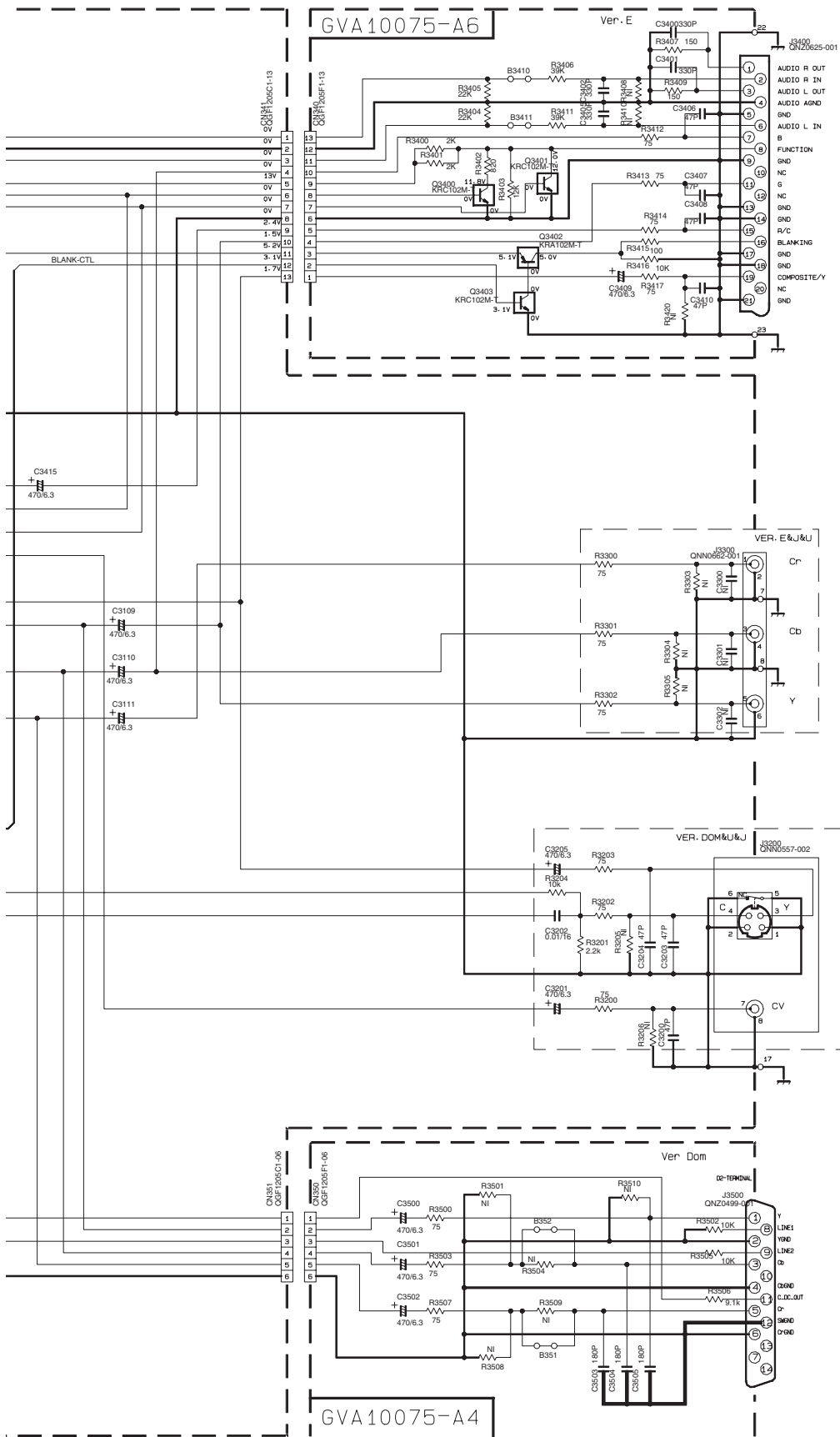


```
MAIN(AUDIO)
```

 Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

## ■ Video section





AV  
(SCART  
TERMINAL)

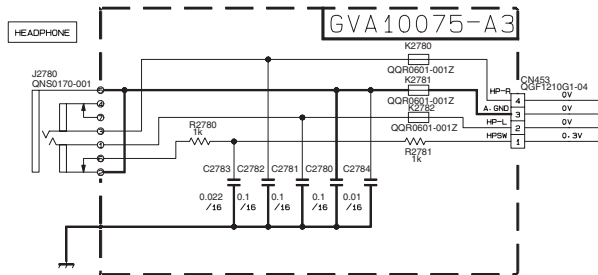
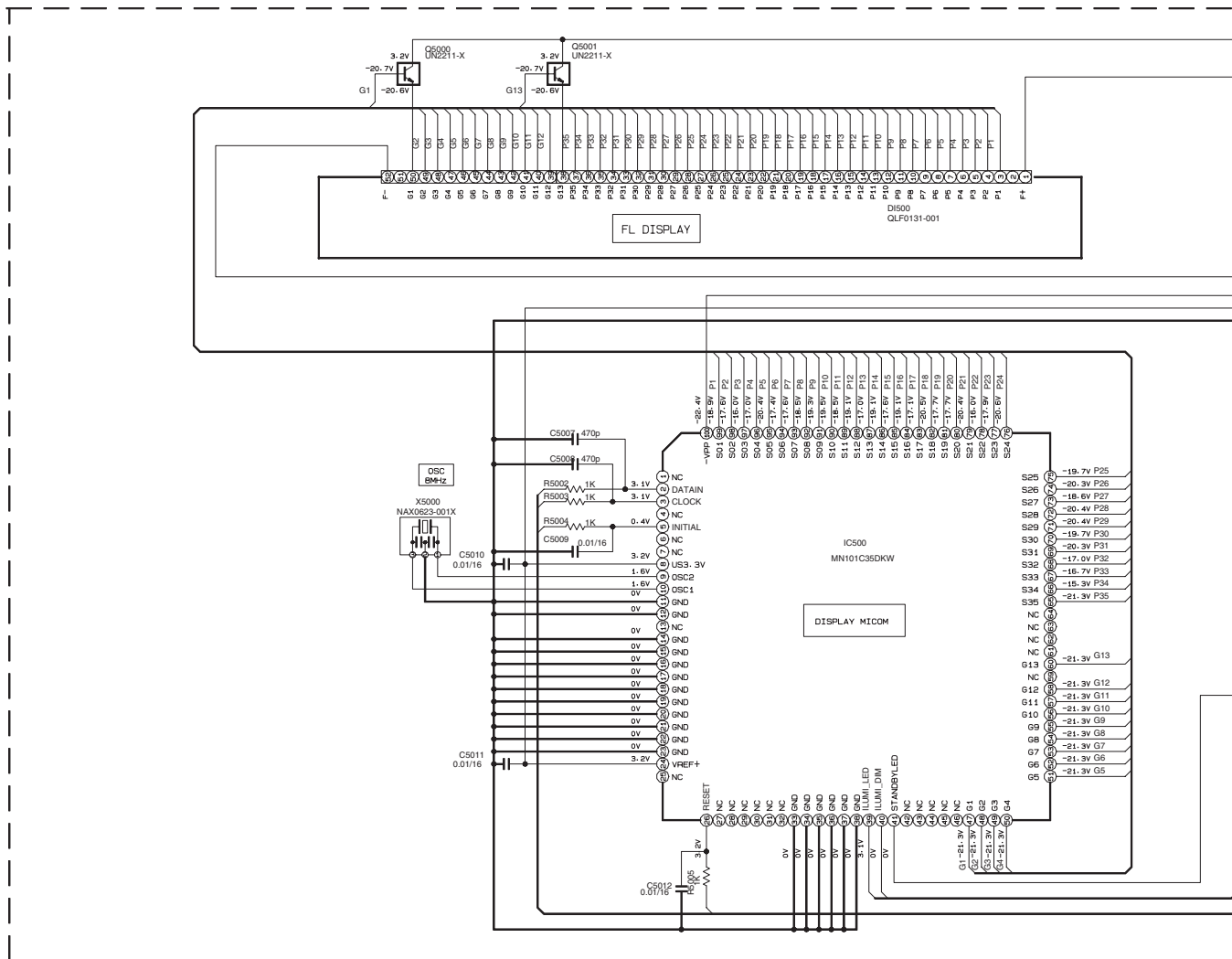
FUNCTION	SPEC	10K	∞
LEVEL 0	0-2V	0V	0V
1A	4.5-7V	5.49V	5.91V
1B	9.5-12V	10.4V	12.08V

BLANKING	SPEC	∞
Y/C	0-0.4V	0V
RGB	1-3V	4.9V

VIDEO OUT  
(COMPONENT)

VIDEO OUT  
(S-VIDEO/  
COMPOSITE)

### ■ Front section



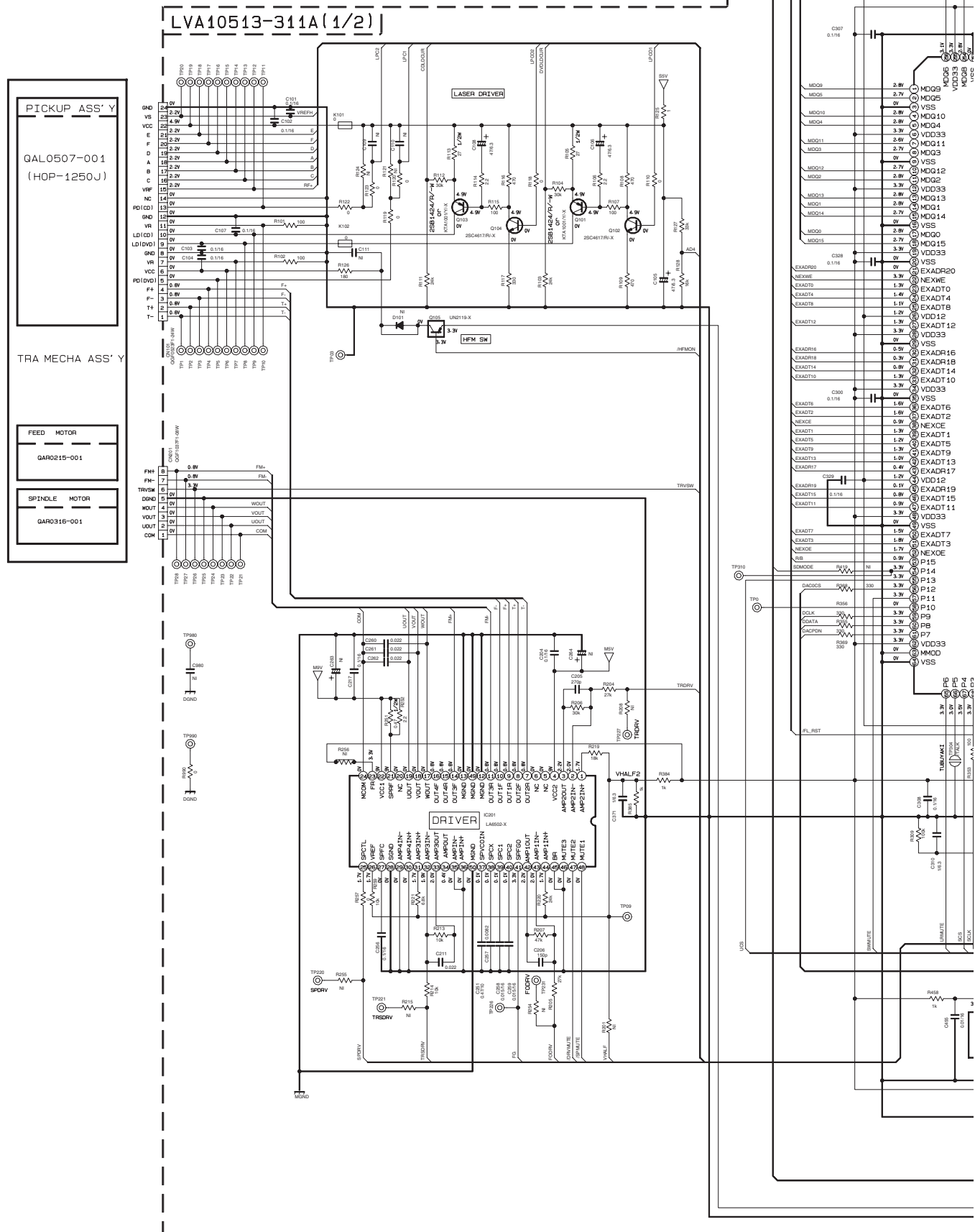
NOTES

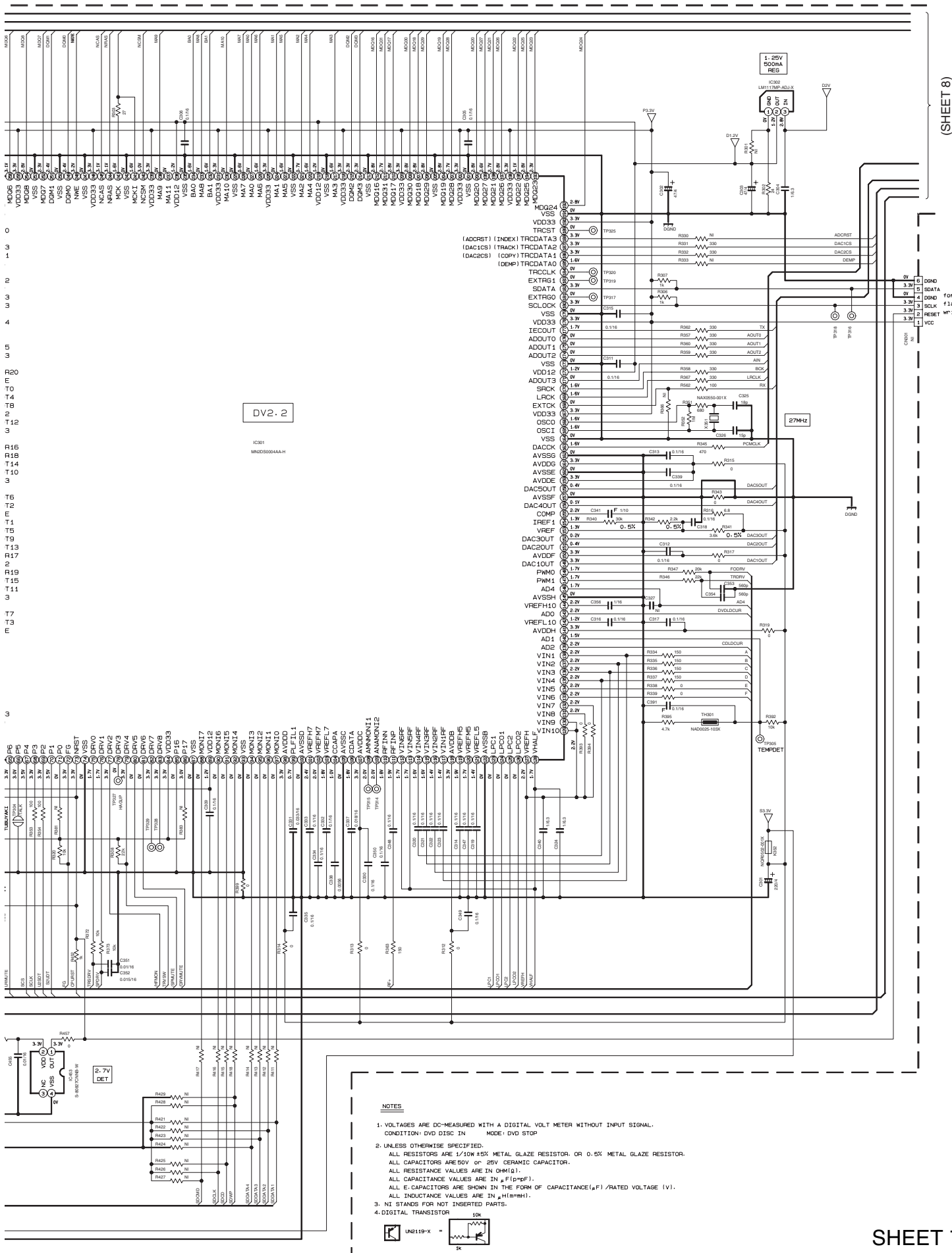
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION --- CD STOP MODE Vol.0
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/8W ±5% CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN Ω (PREF).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN # (PREF).  
ALL INDUCTANCE VALUES ARE IN # H (M=MH).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).  
ALL DIODES ARE MA1115-X
3. MARK(† AND #) IS TO SHOW DEVIATION IN VERSIONS ARE EXPLAINED NEAR





## ■ DVD servo section (1/2)

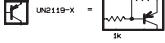




(SHEET 8)

NOTES

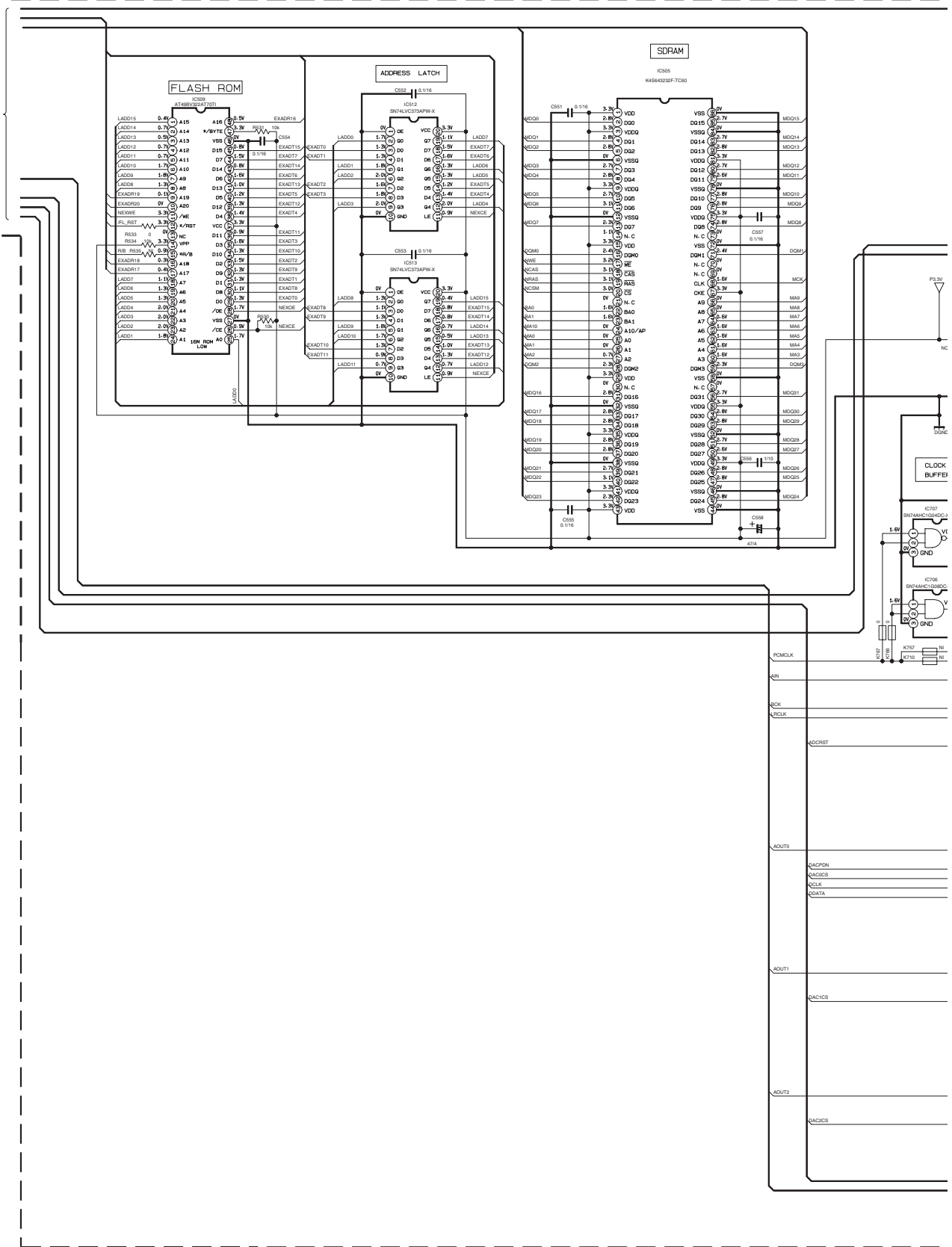
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.  
CONDITION: DVD DISC IN MODE: DVD STOP
2. UNLESS OTHERWISE SPECIFIED.  
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR, OR 0.5% METAL GLAZE RESISTOR.  
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.  
ALL RESISTANCE VALUES ARE IN OHM(Ω).  
ALL CAPACITANCE VALUES ARE IN nF(nF).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).  
ALL INDUCTANCE VALUES ARE IN μH(μH).
3. NI STANDS FOR NOT INSERTED PARTS.
4. DIGITAL TRANSISTOR



SHEET 7

■ DVD servo section (2/2)

(SHEET 7)



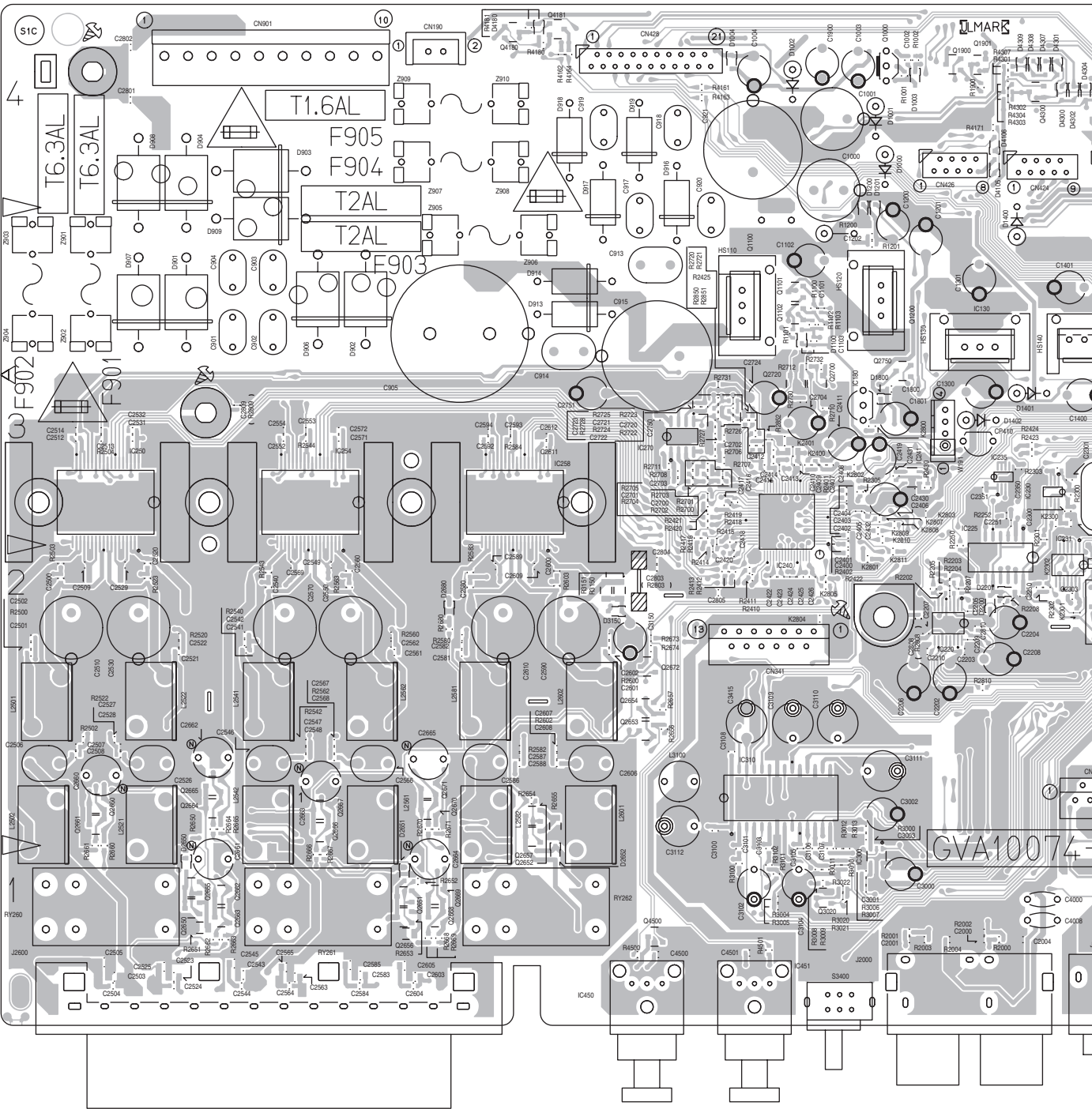


# Printed circuit boards

## ■ Main board (1/2)

Forward side

(Main board)

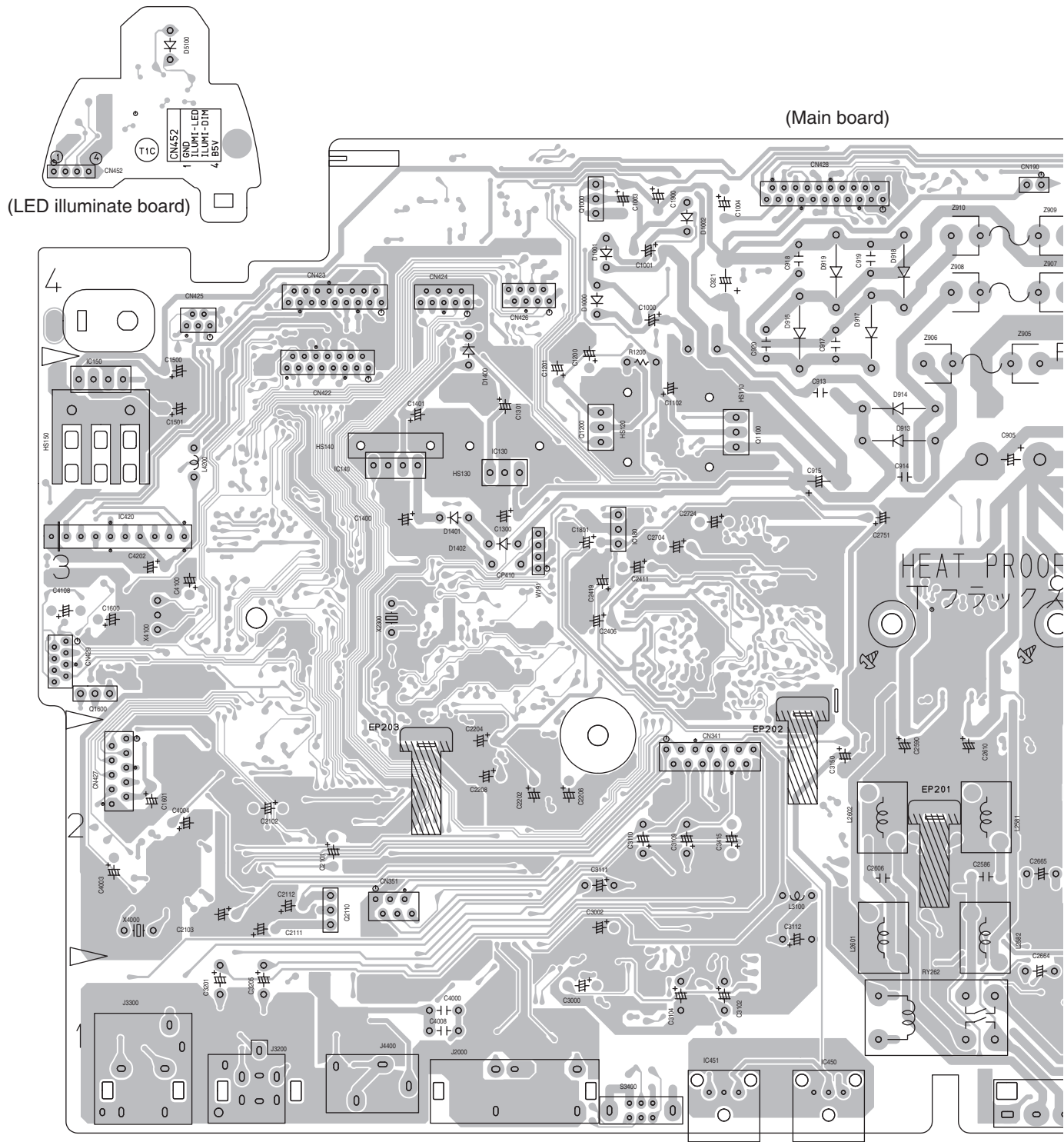




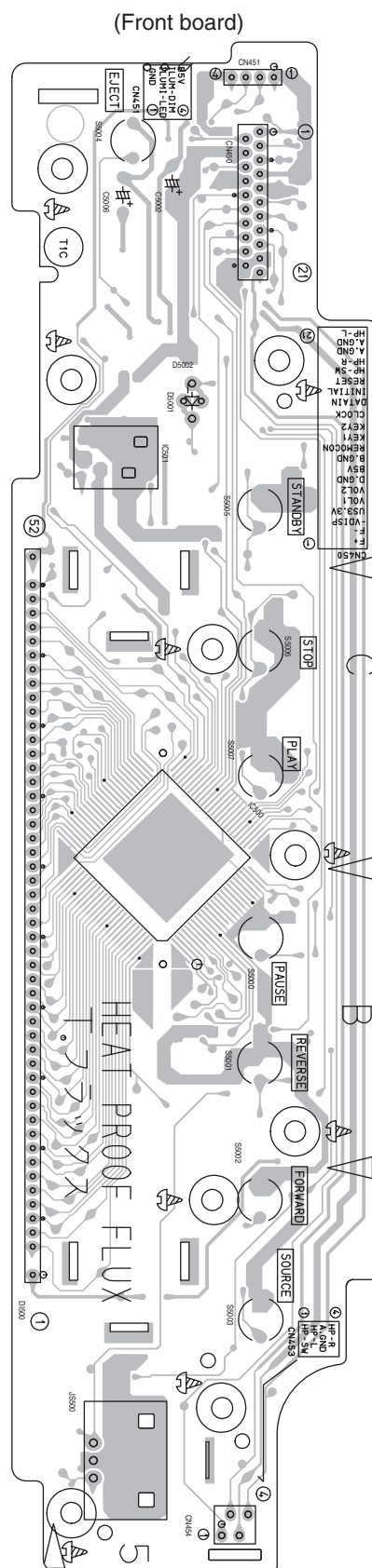
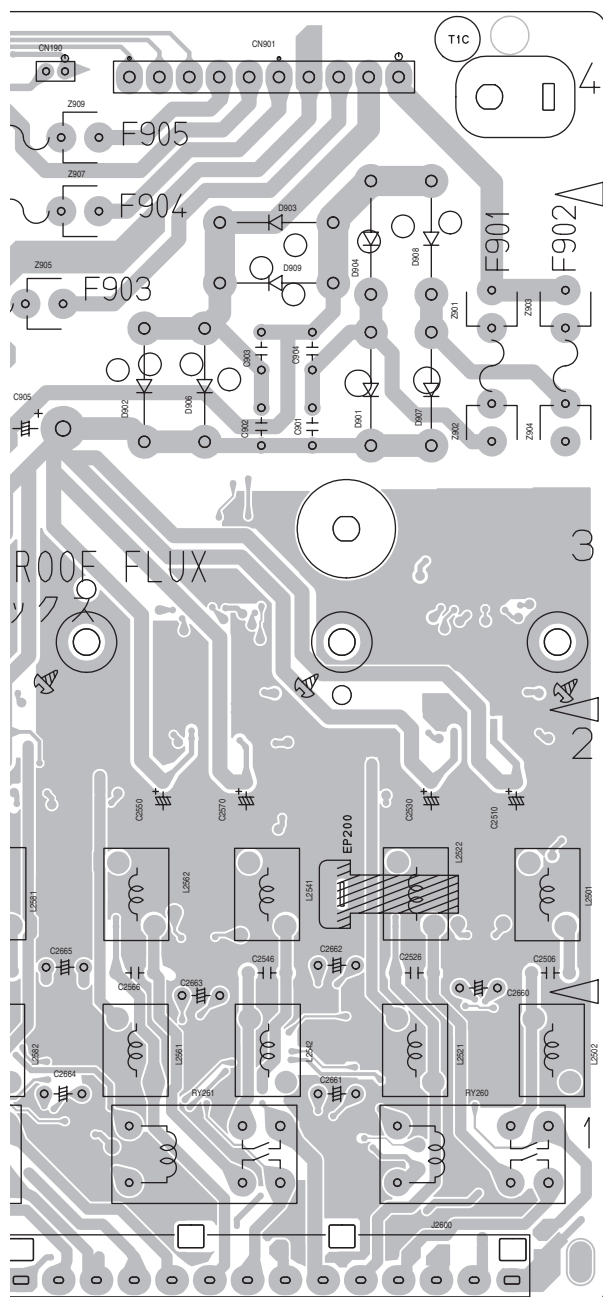


■ Main board (2/2)

Reverse side

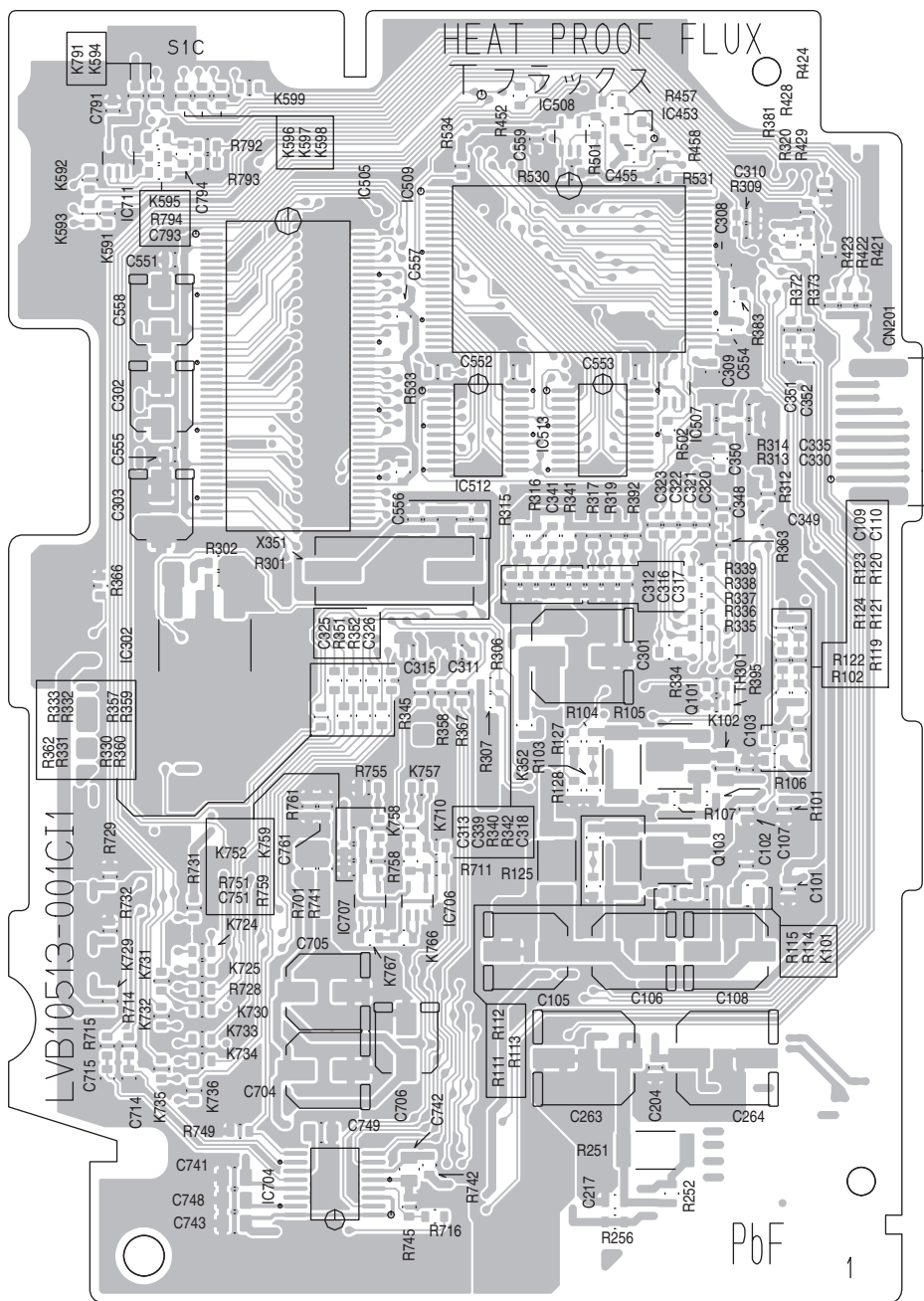






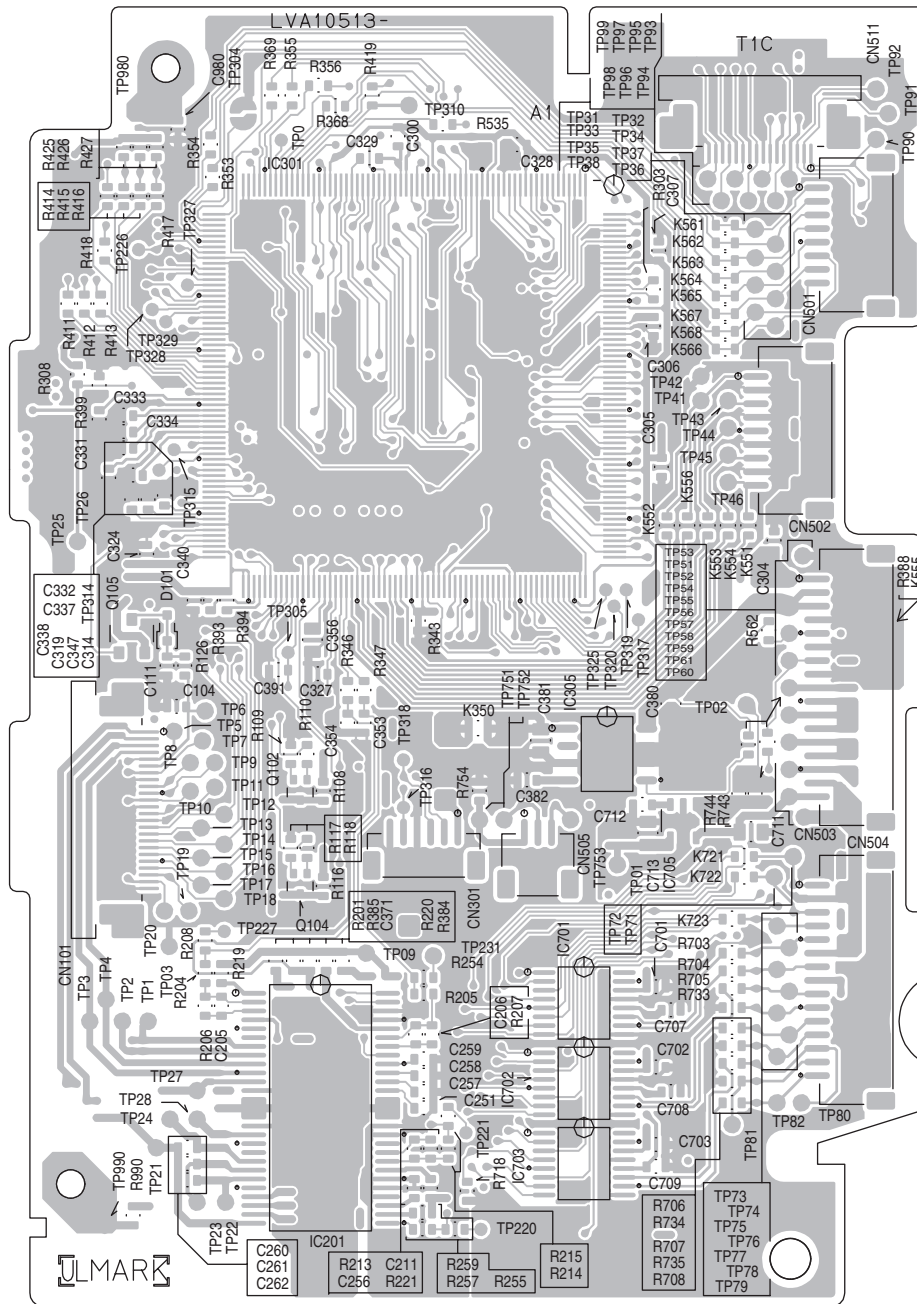
## ■ DVD servo board (1/2)

Forward side

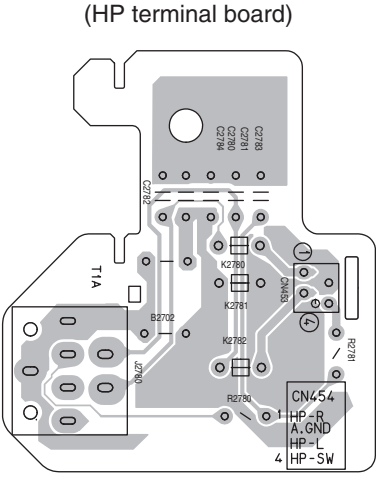
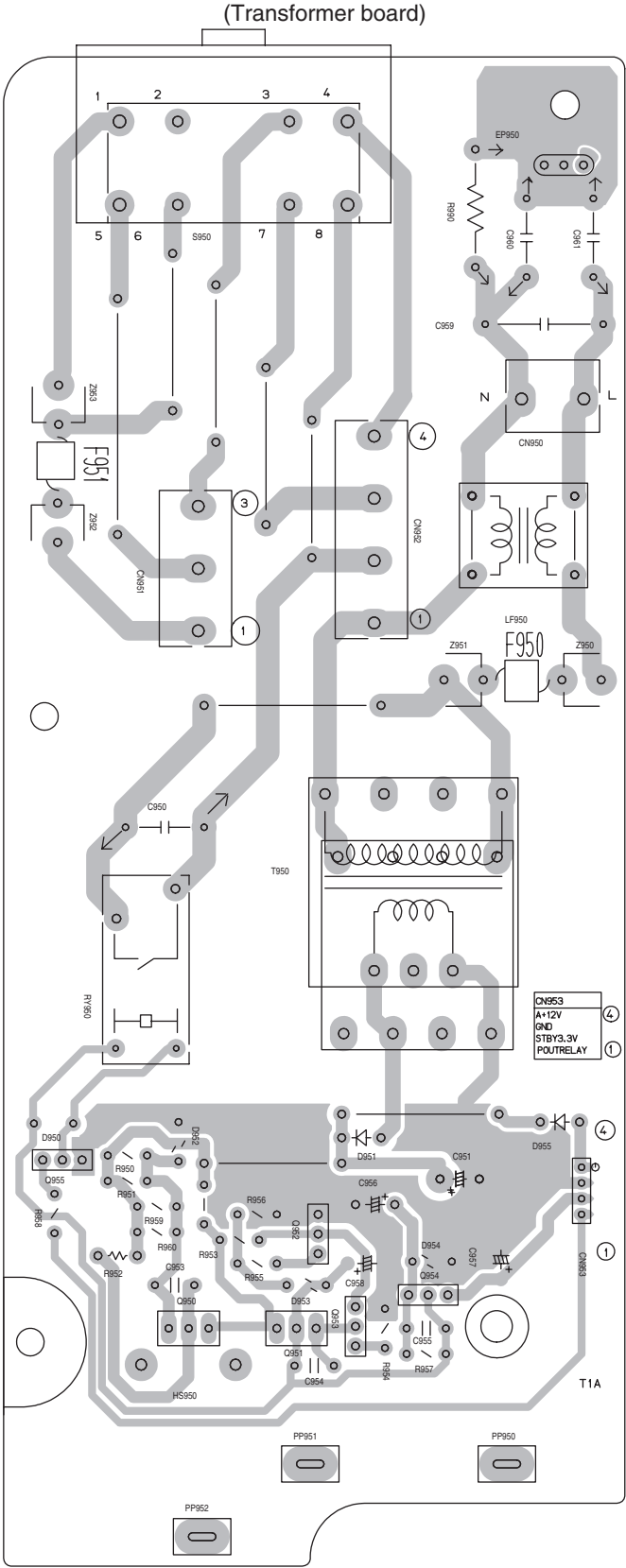


## ■ DVD servo board (2/2)

Reverse side



■ Trans board



< MEMO >



VICTOR COMPANY OF JAPAN, LIMITED

AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1, 1chome, Ohwatari-machi, Maebashi-city, 371-8543, Japan

(No.MB193SCH)



Printed in Japan  
WPC